Antidegradation Review Form

Part A: Applicant Information

Facility Name: Keetley Water Treatment Plant	
Facility Owner: Jordanelle Special Service District	
Facility Location: 10500 North 1420 West Heber City Utah	
Form Prepared By: Wade Webster	
Outfall Number: 001	
Receiving Water: Jordanelle Reservoir	
What Are the Designated Uses of the Receiving Water (R317-2-6)? Domestic Water Supply: 1C Recreation: 2A - Primary Contact Aquatic Life: 3A - Cold Water Aquatic Life Agricultural Water Supply: 4 Great Salt Lake: None	
Category of Receiving Water (R317-2-3.2, -3.3, and -3.4): Category 3	
UPDES Permit Number (if applicable): UT0022403	
Effluent Flow Reviewed: 16mgd 6-7 M6D AVG. FLOWS over Part Sys. Typically, this should be the maximum daily discharge at the design capacity of the facility. Exceptions should be noted 12 M6D total with the should be noted 12 M6D.	nux
What is the application for? (check all that apply)	
A UPDES permit for a new facility, project, or outfall.	
A UPDES permit renewal with an expansion or modification of an existing wastewater treatment works.	
A UPDES permit renewal requiring limits for a pollutant not covered by the previous permit and/or an increase to existing permit limits.	
A UPDES permit renewal with no changes in facility operations.	

Part B. Is a Level II ADR required?

This section of the form is intended to help applicants determine if a Level II ADR is required for specific permitted activities. In addition, the Executive Secretary may require a Level II ADR for an activity with the potential for major impact on the quality of waters of the state (R317-2-3.5a.1).

B1. The r	eceiving water or downstream water is a Class 1C drinking water source.
⊠ Yes	A Level II ADR is required (Proceed to Part C of the Form)
□ No	(Proceed to Part B2 of the Form)
concentra	PDES permit is new <u>or</u> is being renewed and the proposed effluent tion and loading limits are higher than the concentration and loading he previous permit and any previous antidegradation review(s).
☐ Yes	(Proceed to Part B3 of the Form)
□ No	No Level II ADR is required and there is <u>no need to proceed further with review questions</u> .
pollutant critical co the ambie pollutants effluent c	any pollutants use assimilative capacity of the receiving water, i.e. do the concentrations in the effluent exceed those in the receiving waters at onditions? For most pollutants, effluent concentrations that are higher than ent concentrations require an antidegradation review? For a few s such as dissolved oxygen, an antidegradation review is required if the oncentrations are less than the ambient concentrations in the receiving ection 3.3.3 of Implementation Guidance)
☐ Yes	(Proceed to Part B4 of the Form)
☐ No	No Level II ADR is required and there is <u>no need to proceed further with review questions</u> .

(Section 3.3.4 of Imp	ty impacts of the proposed project temporary and limited plementation Guidance)? Proposed projects that will have d effects on water quality can be exempted from a Level II ADR.
	ne reasons used to justify this determination in Part B4.1 and proceed No Level II ADR is required.
No A Level II	ADR is required (Proceed to Part C)
exclusion for tempor 3.5(b)(4)). For projeindicate the factor(s	question only if the applicant is requesting a Level II review rary and limited projects (see R317-2-3.5(b)(3) and R317-2-ects requesting a temporary and limited exclusion please) used to justify this determination (check all that apply and opropriate) (Section 3.3.4 of Implementation Guidance):
	impacts will be temporary and related exclusively to sediment or fish spawning will not be impaired.
	ered in determining whether water quality impacts will be
temporary and limit	
	e during which water quality will be lowered:
	ge in ambient concentrations of pollutants:
c) Pollutants affected	
*	ng-term water quality benefits:
	residual long-term influences on existing uses:
f) Impairment of fish fish removal effor	h spawning, survival and development of aquatic fauna excluding ets:
Additional justification	on, as needed:

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Part C, D, E, and F of the form constitute the Level II ADR Review. The applicant must provide as much detail as necessary for DWQ to perform the antidegradation review. Questions are provided for the convenience of applicants; however, for more complex permits it may be more effective to provide the required information in a separate report. Applicants that prefer a separate report should record the report name here and proceed to Part G of the form.

Optional Report Name: [
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- Part C. Is the degradation from the project socially and economically necessary to accommodate important social or economic development in the area in which the waters are located? The applicant must provide as much detail as necessary for DWQ to concur that the project is socially and economically necessary when answering the questions in this section. More information is available in Section 6.2 of the Implementation Guidance.
- C1. Describe the social and economic benefits that would be realized through the proposed project, including the number and nature of jobs created and anticipated tax revenues.

The facility Provides culinary drinking water to the northern part of Wasatch County. 23 jobs have been created by this facility (Management, Operations, Maintance, Electrical.)

C2. Describe any environmental benefits to be realized through implementation of the proposed project.

The facility was put into service in 2000 primarily for removing heavy metals. The facility is also benefical in reducing the impact on the receiving water and the environment.

C3. Describe any social and economic losses that may result from the project, including impacts to recreation or commercial development.

N/A

C4. Summarize any supporting information from the affected communities on preserving assimilative capacity to support future growth and development.

N/A

C5. Please describe any structures or equipment associated with the project that will be placed within or adjacent to the receiving water.

16 mgd lime softning water plant.

Part D. Identify and rank (from increasing to decreasing potential threat to designated uses) the parameters of concern. Parameters of concern are parameters in the effluent at concentrations greater than ambient concentrations in the receiving water. The applicant is responsible for identifying parameter concentrations in the effluent and DWQ will provide parameter concentrations for the receiving water. More information is available in Section 3.3.3 of the Implementation Guidance.

Parameters of Concern:

Rank	Pollutant	Ambient Concentration	Effluent Concentration
1	Total Recoverable Zinc		0.02
2	Total Recoverable Lead		ND
3	Total Recoverable Mercury		ND
4	Total Recoverable Copper		.002
5	PH/TSS		7.8/ND

Pollutants Evaluated that are not Considered Parameters of Concern:

Pollutant	Ambient Concentration	Effluent Concentration	Justification

Part E. Alternative Analysis Requirements of a Level II

Antidegradation Review. Level II ADRs require the applicant to determine whether there are feasible less-degrading alternatives to the proposed project. More information is available in Section 5.5 and 5.6 of the Implementation Guidance.

E1. The UPDES permit is being renewed without any changes to flow or concentrations. Alternative treatment and discharge options including changes to operations and maintenance were considered and compared to the current processes. No economically feasible treatment or discharge alternatives were identified that were not previously considered for any previous antidegradation review(s).

\boxtimes	Yes	(Proceed to Pa	art F)
	No or	Does Not Apply	(Proceed to E2)
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E2. Attach as an appendix to this form a report that describes the following factors for all alternative treatment options (see 1) a technical description of the treatment process, including construction costs and continued operation and maintenance expenses, 2) the mass and concentration of discharge constituents, and 3) a description of the reliability of the system, including the frequency where recurring operation and maintenance may lead to temporary increases in discharged pollutants. Most of this information is typically available from a Facility Plan, if available.

Report Name:	
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E3. Describe the proposed method and cost of the baseline treatment alternative. The baseline treatment alternative is the minimum treatment required to meet water quality based effluent limits (WQBEL) as determined by the preliminary or final wasteload analysis (WLA) and any secondary or categorical effluent limits.

E4. Were any of the following alternatives feasible and affordable?

Alternative	Feasible	Reason Not Feasible/Affordable
Pollutant Trading	Yes	
Water Recycling/Reuse	Yes	
Land Application	Yes	
Connection to Other Facilities	Yes	
Upgrade to Existing Facility	Yes	
Total Containment	Yes	
Improved O&M of Existing Systems	Yes	
Seasonal or Controlled Discharge	Yes	
New Construction	Yes	
No Discharge	Yes	

E5.	From the applicant's perspective, what is the preferred treatment option?
E6.	Is the preferred option also the least polluting feasible alternative?
	☐ Yes
	□ No
	If no, what were less degrading feasible alternative(s)?
	If no, provide a summary of the justification for not selecting the least uting feasible alternative and if appropriate, provide a more detailed ification as an attachment.

Part F. Optional Information

F1. Does the applicant want to conduct optional public remandatory public review? Level II ADRs are public notic comment period. More information is available in Section Implementation Guidance.	ced for a thirty day	,
⊠ No		
☐ Yes		
F2. Does the project include an optional mitigation plan t proposed water quality degradation?	to compensate for the	
⊠ No		
☐ Yes		
Report Name:		

Part G. Certification of Antidegradation Review

G1. Applicant Certification

The form should be signed by the same responsible person who signed the accompanying permit application or certification.

Based on my inquiry of the person(s) who manage the system or those persons directly responsible for gathering the information, the information in this form and associated documents is, to the best of my knowledge and belief, true, accurate, and complete.

Print Name:	Wade Webster		
Signature:	Wado С. Wol	bster	
Date: 09-26	5-2017		
G2. DWQ Approv	<u>al</u>		
	nowledge, the ADR wa in UAC R-317-2-3.	as conducted in accordance w	rith the rules and
Water Quality Mana	gement Section	e	
Print Name:			
Signature:	<u></u>		
Date:			

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